IN THE CLAIMS:

Please amend Claims 1, 5 and 9 and add new Claims 10 and 11, as shown below. The claims as pending are as follows:

1. (Currently Amended) A coordinate input apparatus which detects three-dimensional position coordinates of an indicating tool used in combination with a display for displaying a window based on two-dimensional coordinates, comprising:

storage means for storing a set of coordinate values of a plurality of points for defining a three-dimensional space area;

coordinate detection means for detecting a three-dimensional absolute coordinate value of the indicating tool in a three-dimensional space area;

determination means for determining whether the three-dimensional

absolute coordinate value as position coordinates of the indicating tool belongs to the
three-dimensional space area defined by the set of coordinate values stored in said storage
means; and

conversion means for converting, responsive to a determination of said determination means that said three-dimensional <u>absolute</u> coordinate value belongs to said three-dimensional space area, a position of said three-dimensional <u>absolute</u> coordinate value in the three-dimensional space area into a display coordinate value of said display.

- 2. (Original) The apparatus according to claim 1, wherein said storage means stores a set of coordinate values of a plurality of points for defining each coordinate area for each of a plurality of types of coordinate input areas.
- 3. (Original) The apparatus according to claim 1, wherein said storage means further stores switch information indicating coordinate input operation of the indicating tool for each of the coordinate input areas.
- 4. (Original) The apparatus according to claim 1, wherein said storage means further stores a definition table for defining operation of executing predetermined processing corresponding to operation of a mouse with respect to a plurality of switches of the coordinate input area and the indicating tool.
- 5. (Currently Amended) A control method for a coordinate input apparatus which detects three-dimensional position coordinates of an indicating tool used in combination with a display for displaying a window based on two-dimensional coordinates, comprising:

a storage step of storing, in a storage medium, a set of coordinate values of a plurality of points for defining a three-dimensional space area;

a coordinate detection step of detecting a three-dimensional absolute coordinate value of the indicating tool in a three-dimensional space area;

a determination step of determining whether a three-dimensional absolute coordinate value as position coordinates of the indicating tool belongs to the threedimensional space area defined by the set of coordinate values stored in the storage medium; and

a conversion step of converting, responsive to a determination of said determination step that said three-dimensional absolute value belongs to said threedimensional space area, a position of said three-dimensional absolute coordinate value in the three-dimensional space area into a display coordinate value of said display.

- б. (Original) The method according to claim 5, wherein, in the storage step, a set of coordinate values of a plurality of points for defining each coordinate area for cach of a plurality of types of coordinate input areas is stored in the storage medium.
- 7. (Original) The method according to claim 5, wherein, in the storage step, switch information indicating coordinate input operation of the indicating tool for each of the coordinate input areas is further stored in the storage medium.
- 8. (Original) The method according to claim 5, wherein, in the storage step, a definition table for defining operation of executing predetermined processing corresponding to operation of a mouse is further stored in the storage medium with respect to a plurality of switches of the coordinate input area and the indicating tool.

9. (Currently Amended) A computer-readable memory storing a program code for controlling a coordinate input apparatus which detects three-dimensional position coordinates of an indicating tool used in combination with a display for displaying a window based on two-dimensional coordinates, wherein the program code includes:

a program code for a storage step of storing, in a storage medium, a set of coordinate values of a plurality of points for defining a three-dimensional space area;

a program code for a coordinate detection step of detecting a threedimensional absolute coordinate value of the indicating tool in a three-dimensional space area;

a program code for a determination step of determining whether a threedimensional <u>absolute</u> coordinate value as position coordinates of the indicating tool belongs to the three-dimensional space area defined by the set of coordinate values stored in the storage medium; and

a program code for a conversion step of converting, responsive to a determination of said determination step that said three-dimensional <u>absolute</u> value belongs to said three-dimensional space area, a position of said three-dimensional <u>absolute</u> coordinate value in the three-dimensional space area into a display coordinate value of said display.

10. (New) The apparatus according to claim 1, wherein said converting means calculates two-dimensional coordinate values in one of planes comprising the three-

dimensional space area, and converts the two-dimensional coordinate values into the display coordinate value on the basis of a predetermined magnification and offset.

11. (New) The method according to claim 5, wherein said converting step calculates two-dimensional coordinate values in one of planes comprising the threedimensional space area, and converts the two-dimensional coordinate values into the display coordinate value on the basis of a predetermined magnification and offset.